



Department of Agriculture  
*School of Applied Sciences and Technology*  
College of Business & Technology (2018-19)

## **Career & Technical Education (B.S.)**

### Ag Education / Teaching Concentration

Offered in cooperation with the Department of Applied Engineering and Technology. This curriculum entails all requirements necessary for teacher certification for agriculture education.

#### **Career & Technical Education at EKU**

EKU has had teacher preparation programs for Career and Technical Education since the Department's historical beginning. Programs available for those who plan to teach and those who are presently teaching many technical subject areas include Technical Education, Engineering/Technology Education and Occupational Training and Development. An Agriculture Education program is also available. The technical teacher education programs are accredited by the Council for the Accreditation of Educator Preparation (CAEP). EKU has one of the largest and most comprehensive technical education programs in the State.

#### **Career & Technical Education Careers**

A well-planned program for teacher preparation and a closely-articulated pathway for those presently teaching in the State's area technology centers, middle schools, high schools and Kentucky Community and Technical College (KCTCS) schools is available at EKU.

The Bachelor of Science Degree in Career and Technical Education prepares teachers for positions in technical education specialty areas such as construction, manufacturing, transportation and information technologies. A 15-credit hour Endorsement for teaching computer technology is also available through the B.S. Degree in Career and Technical Education. The Engineering/Technology Education option is a unique, high-demand program that prepares teachers for middle schools and high schools -- an enjoyable teaching area that has many employment opportunities in Kentucky and other nearby states. Most Central and Southeastern Kentucky school systems employ technical teachers who are Department alumni.

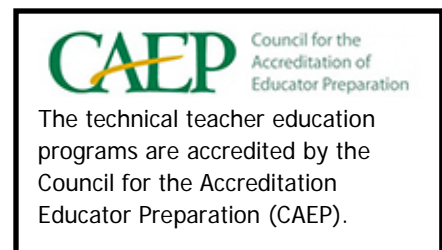
EKU also has a Certification Program and Associate of Science Degree in Career and Technical Education that is offered in conjunction with the Kentucky Department for Technical Education. These programs are for teachers of many technical programs, including electronics, health science, carpentry, welding, computer technology, industrial maintenance, and other high-tech areas, primarily in Central and Southeastern Kentucky.

#### **Potential Job Opportunities with a B.S. in Career & Technical Education / AG Education**

After completion of this preparatory program which must include 75 hours of pre-student teaching clinical and field experiences, students are required to complete state certification requirements including student teaching at one of the state universities which has been authorized to certify career and technical education teachers. Career opportunities are within the secondary school systems throughout the Commonwealth of Kentucky which offer vocational agriculture and horticulture training for high school level students. Opportunities also exist within secondary school systems in surrounding states. Starting salaries vary between school districts and from state to state. Starting salaries in Kentucky range from \$32,500 to \$38,000.

#### **For More Information**

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**Suggested Curriculum Guide for Career and Technical Education (Teaching),  
 Agriculture Education Concentration**

**Freshman (1<sup>st</sup> Semester) 15 hrs**

- BTO 100\*\*** Orientation (1 hr)
- AGR 125** Principles of Animal Science
- AGR 126** Animal Science Lab (1 hr)
- OHO 131** Principles of Horticulture
- OHO 132** Horticulture Lab (1 hr)
- E-1A ENG 101** English I
- E-2 MAT 107** (or higher) College Algebra

**Sophomore (1<sup>st</sup> Semester) 17 hrs**

- AGR 308** Agribusiness
- E-4A BIO 111 or 112** Principles of Biology (4 hrs)
- E-4B CHE 101** Chemistry in Everyday Life
- E-4B CHE 101L** Introductory Chemistry Lab (1 hr)
- E-3B** Humanities
- E-5A** History

**Junior (1<sup>st</sup> Semester) 16 hrs**

- AGR 272, 311, 362, or 383**
- AGR 409 or 440**
- AGR/OHO Elective\*** (1 hrs)
- CTE 361** Course Materials in Tech. Ed.
- E-5B** Social Behavioral Sciences
- Wellness** (3 hrs)

**Senior (1<sup>st</sup> Semester) 12 hrs**

- ESE 552** Secondary Career Ed
- E-3A** Arts
- AGR 310 or 350** Ag Marketing or Management
- E-6** Diverstiy

**Freshman (2<sup>nd</sup> Semester) 15 hrs**

- AGR 210** Ag Measurements (2 hrs)
- AGR 213** Agricultural Mechanics (3 hrs)
- EDF 103** Introduction to Education (1 hr)
- E-1B ENG 102** English II
- ECO 230** Principles of Microeconomics
- CTE 261** Foundations of Career & Tech. Ed.

**Sophomore (2<sup>nd</sup> Semester) 16 hrs**

- AGR 215** Soils
- AGR 216** Soils Lab (1 hr)
- AGR 327 or 328** Production Course
- EDF 319** Human Development
- CIS 212, CCT 201, or CSC 104**
- E-1C CMS 100** Communication

**Junior (2<sup>nd</sup> Semester) 17 hrs**

- AGR 304** Pest Management (4 hrs)
- AGR 305** Professional Skills Seminar (1 hr)
- AGR 312, 417 or OHO 384 or 385**
- CTE 363** Evaluation in Career Tech Ed
- SED 401** Exceptional Learners
- E-6** Diversity

**Senior (2<sup>nd</sup> Semester) 15 hrs**

- ESE 499** Student Teaching (12 hrs)
- ESE 490** Seminar
- BTS 400** College to Careers Seminar (0 credit)\*\*

Certification for Teacher Education may require more than 120 hrs.

\*\*Course must be taken in semester indicated.

**UNIVERSITY GRADUATION REQUIREMENTS**

<b>University Requirements</b> .....	37 hrs
Orientation Course (1 hr) -waived for transfers with 30+ hrs.	
General Education (36 hrs) -see also supporting course requirements	
<b>College Requirements:</b>	
BTS 300 (CR only, no hrs) and BTS 400 (CR only, no hrs).....	0 hr
<b>Career and Technical Education Requirements</b> .....	9 hrs
CTE 262, 361, and 363	
<b>Major Requirements</b> .....	45 hrs
<b>Animal Science</b> AGR 125, 126 and one additional advisor-approved Animal Science course; <b>Agricultural Systems Management</b> AGR 213 and one additional advisor-approved Agricultural Systems Management course <b>Soil Science</b> AGR 215 and 216 and one additional advisor-approved Soil Science course <b>Plant Science</b> AGR 130, 131 or OHO 131, 132 and one additional advisor-approved Plant Science; <b>Agriculture Business</b> AGR 308 and one additional advisor-approved Agriculture Business course; AGR 304, 305 (1); plus Agriculture or Horticulture electives to make 45 credit hours selected in consultation with your advisor.	
<b>Professional Education Core</b> .....	31 hrs
EDF 203(1), 219, 413(2), EMS 300W(1), 474, 490(1), ESE 552, SED 104 <sup>G</sup> (Element 6), 402(2), EDF 204, and 12 credit hours of Clinical Experiences: CED 100 (0.5), 200(0.5), 300(0.5), 400(0.5), 450(1), 499(9). <sup>G</sup> = Course also satisfies a General Education element. Hours are included within the 36 hours in General Education.	
<b>Total Curriculum Requirements</b> .....	<b>122 hrs</b>

**SUGGESTED ELECTIVE COURSES IN AGRICULTURE EDUCATION:** **AGR 312** Advanced Crops: Forages; **AGR 340** Conservation of Agricultural Resources; **AGR 213** Principles of Agricultural Machinery; **AGR 383** Diesel Power Systems; **AGR 327** Beef Production; **AGR 409** Ag Records; **OHO 131** Principles of Horticulture; **OHO 385** Production of Foliage Plants; **AGR 345** Sustainable Agroecosystems; **OHO 373** Fruit and Vegetable Production; Soil Water Relationships.